APPENDIX 1-G
MWDOC 2005 Urban Water Management Plan Review for Completeness Form

In the event of a discrepancy between the attached information and that contained within a local retail agency's Urban Water Management Plan, the local retail agency's data control.

2005 Urban Water Management Plan "Review for Completeness" Form

Return to Instruction Sheet

For DWR Review Staff Use

Coordination with Appropriate Agencies — **(Water Code § 10620 (d)(1)(2))**

Yes

- [ ] Participated in area, regional, watershed or basin wide plan — Reference & Page Number
  Name of plan _____ Lead Agency _____ — Reference & Page Number
- [x] Describe the coordination of the plan preparation and anticipated benefits. — Section 1.1.2 — Reference & Page Number

Table 1
Coordination with Appropriate Agencies

Check at least one box on each row	Participated in developing the plan	Commented on the draft	Attended public meetings	Was contacted for assistance	Was sent a copy of the draft plan	Was sent a notice of intention to Update the Plan	Was Sent a notice of Intention to Adopt the Plan
MWDOC 27 Member Agencies		x		x	x	x	x
Cities within MWDOC Service Area					x	x	x
County of Orange					x	x	x
Orange Ccounty Water District	x			x	x	x	x
San Juan Basin Authority				x	x		
Metropolitan Water District of Southern California	x			x	x	x	x
Orange County Sanitation Water District				x	x		
South Orange County Wastewater Authority				x	x		

Describe resource maximization / import minimization plan — **(Water Code §10620 (f))**

- [x] Describe how water management tools / options maximize resources & minimize need to import water — Section 4.1 — Reference & Page Number

Plan Updated in Years Ending in Five and Zero — **(Water Code § 10621(a))**

- [x] Date updated and adopted plan received 12/1/2005 (enter date) — Section 8.1 — Reference & Page Number

City and County Notification and Participation — **(Water Code § 10621(b))**

- [x] Notify any city or county within service area of UWMP of plan review & revision — Section 1.1.2 — Reference & Page Number
- [ ] Consult and obtain comments from cities and counties within service area — Reference & Page Number

Service Area Information — **Water Code § 10631 (a)**

- [x] Include current and projected population — Section 2.1.2.1 — Reference & Page Number
- [x] Population projections were based on data from state, regional or local agency — Section 2.1.2.1 — Reference & Page Number

Table 2
Population - Current and Projected

(in Millions)	2005	2010	2015	2020	2025	2030 - opt
Service Area Population	2.22	2.41	2.48	2.54	2.59	2.64

Note: US Census, CA Department of Finance, SCAG RTP-04 Forecast

- [x] Describe climate characteristics that affect water management — Section 2.1.3.5 — Reference & Page Number
- [x] Describe other demographic factors affecting water management — Section 2.1.2.2 & 2.1 — Reference & Page Number

Table 3
Climate

	January	February	March	April	May	June
Standard Average ETo	2.18	2.49	3.67	4.71	5.18	5.87
Average Rainfall	2.53	2.73	2.21	1.01	0.26	0.07
Average Temperature	53.75	55.25	56.85	60.3	63.8	67.4

Table 3 (continued)
Climate

	July	August	September	October	November	December	Annual
Average ETo	6.29	6.17	4.57	3.66	2.59	2.25	**49.63**
Average Rainfall	0.01	0.08	0.27	0.36	1.32	1.99	**12.84**
Average Temperature	71.6	72.5	70.85	65.8	59.15	54.45	**62.64**

Note: ETo Information is based on CIMIS Station of Irvine South Coast Valleys, Rainfall and temperature information is based on station of Tustin Irvine Ranch from period of 12/1/1927 to 6/30/2003

Water Sources — **(Water Code § 10631 (b))**

- [x] Identify existing and planned water supply sour — Section 2.2.1 — Reference & Page Number
- [x] Provide current water supply quantities — Section 2.2.1 — Reference & Page Number
- [x] Provide planned water supply quantities — Section 2.2.1 — Reference & Page Number

Table 4-A
Current and Planned Water Supplies for Retail Consumption - AFY

Water Supply Sources	2005	2010	2015	2020	2025	2030 - opt
Water purchased from:						
Metropolitan Water District of Southern Ca	245,232	208,006	230,494	243,030	245,322	246,981
Municipal Water District of Orange County						
Orange County Water District (Lower Santa Ana Basin)	212,909	259,440	257,192	260,804	266,473	270,610
California Domestic Water Company	13,953	13,700	13,700	13,700	13,700	13,700
Supplier produced groundwater	7,157	10,978	11,499	12,124	12,124	12,124
Supplier surface diversions	10,908	11,476	10,749	10,500	10,462	10,525
Transfers in or out	0	0	0	0	0	0
Exchanges In or out	0	0	0	0	0	0
Recycled Water (projected use)	31,619	51,375	54,521	59,208	62,618	62,618
Desalination	0	0	0	0	0	0
Other	0	0	0	0	0	0
Other	0	0	0	0	0	0
Total	**521,778**	**554,975**	**578,156**	**599,365**	**610,699**	**616,558**

Table 4-B
Current and Planned Water Supplies for GW Replenishment and Saline Barrier - AFY

Water Supply Sources	2005	2010	2015	2020	2025	2030 - opt
Water purchased from Metropolitan Wa						
For Sea Barrier	8,000	4,000	0	0	0	0
For Replenishment	55,181	57,739	58,734	56,685	57,048	50,700
Direct Spreading	20,582	19,792	21,634	18,801	17,667	10,590
In-Lieu	34,599	37,947	37,100	37,884	39,381	40,110
Santa Ana River(Storm and Base Flows	217,116	202,057	211,339	219,633	227,616	235,913
Incidental Recharge	99,389	47,006	43,745	42,051	41,348	41,826
Withdraw/Deposit to Basin Storage	(62,606)	2,132	(3,825)	(2,201)	(789)	4,041
Recycle Water For Sea Barrier	4,000	34,000	34,000	34,000	34,000	34,000
Recycle Water For Replenishment	0	38,000	38,000	38,000	38,000	38,000
Purchase from Others	0	0	0	0	0	0
For Sea Barrier	2,000	2,000	2,000	2,000	2,000	2,000
For Replenishment	2,000	2,000	2,000	2,000	2,000	2,000
Total	**325,080**	**388,934**	**385,993**	**392,169**	**401,223**	**408,479**

If Groundwater identified as existing or planned source — **(Water Code §10631 (b)(1-4))**

x	Has management plan	Section 2.2.1.1.1	Reference & Page Number
x	Attached management plan (b)(1)	Appendix 2B & 2D	Reference & Page Number
x	Description of basin(s) (b)(2)	Section 2.2.1.1	Reference & Page Number
	Basin is adjudicated		Reference & Page Number
	If adjudicated, attached order or decree (b)(2)		Reference & Page Number
	Quantified amount of legal pumping right (b)(2)		Reference & Page Number

Table 5
Groundwater Pumping Rights - AF Year

Basin Name	Pumping Right - AFY
Total	0

	DWR identified, or projected to be, in overdraft (b)(2)		Reference & Page Number
x	Plan to eliminate overdraft (b)(2)	Section 2.2.1.1.1	Reference & Page Number
x	Analysis of location, amount & sufficiency, last five years (b)(3)	Section 2.2.1.1.1	Reference & Page Number
x	Analysis of location & amount projected, 20 years (b)(4)	Section 2.2.1.1.1	Reference & Page Number

Table 6
Amount of Groundwater pumped - AFY

Basin Name (s)	2000	2001	2002	2003	2004
La Habra Basin	1140	1207	534	1346	1006
San Juan Basin	2078.7	2160.7	1662.8	1883.9	2223.6
Lower Santa Ana Basin *(Including in-lieu)	217,856	211,912	195,525	190,355	201,639
San Mateo Basin	-	-	-	-	-
% of Total Retail Water Supply	42.40%	44.23%	38.99%	39.67%	40.04%

Table 7
Amount of Groundwater projected to be pumped - AFY

Basin Name(s)	2010	2015	2020	2025	2030 - opt
La Habra Basin	2,400	2,400	2,400	2,400	2,400
Laguna Canyon Basin	200	200	200	200	200
San Juan Basin	8,378	8,899	9,524	9,524	9,524
Lower Santa Ana Basin	259,440	257,192	260,804	266,473	270,610
San Mateo Basin	0	0	0	0	0
% of Total Retail Water Supply	48.7%	46.5%	45.5%	45.6%	45.9%

Reliability of Supply — **(Water Code §10631 (c) (1-3)**

x	Describes the reliability of the water supply and vulnerability to seasonal or climatic shortage	Section 2.2.2.2	Reference & Page Number

Table 8 - A
Supply Reliability for Retail Consumption- AF Year

2005-2010	Normal	Single	Multiple Dry Water Years		
	Water Year (Average)	Dry Year (1961)	2008 (1959)	2009 (1960)	2010 (1961)
Local Supply	346,968	332,774	333,125	332,843	332,774
	95.9%	96.0%	95.9%	95.9%	
Imported Supply	208,006	254,476	244,821	237,614	254,476
	122.3%	117.7%	114.2%	122.3%	
2010-2015	**Normal**	**Single**	**Multiple Dry Water Years**		
	Water Year (Average)	**Dry Year (1961)**	**2013 (1959)**	**2014 (1960)**	**2015 (1961)**
Local Supply	347,662	322,569	324,837	319,490	322,569
	92.8%	93.4%	91.9%	92.8%	
Imported Supply	230,494	288,677	282,844	276,226	288,677
	125.2%	122.7%	119.8%	125.2%	
2015-2020	**Normal**	**Single**	**Multiple Dry Water Years**		
	Water Year (Average)	**Dry Year (1961)**	**2018 (1959)**	**2019 (1960)**	**2020 (1961)**
Local Supply	356,336	328,874	329,027	324,399	328,874
	92.3%	92.3%	91.0%	92.3%	
Imported Supply	243,030	304,510	302,616	294,339	304,510
	125.3%	124.5%	121.1%	125.3%	
2020-2025	**Normal**	**Single**	**Multiple Dry Water Years**		
	Water Year (Average)	**Dry Year (1961)**	**2023 (1959)**	**2024 (1960)**	**2025 (1961)**
Local Supply	365,377	334,801	344,291	330,406	334,801
	91.6%	94.2%	90.4%	91.6%	
Imported Supply	245,322	310,194	302,951	301,248	310,194
	126.4%	123.5%	122.8%	126.4%	
2025-2030	**Normal**	**Single**	**Multiple Dry Water Years**		
	Water Year (Average)	**Dry Year (1961)**	**2028 (1959)**	**2029 (1960)**	**2030 (1961)**
Local Supply	369,577	341,783	355,198	337,298	341,783
	92.5%	96.1%	91.3%	92.5%	
Imported Supply	246,981	309,572	301,024	302,027	309,572
	125.3%	121.9%	122.3%	125.3%	

Table 8 - B
Supply Reliability for GW Replenishment & Saline Barrier- AF Year

2005-2010	Normal	Single	Multiple Dry Water Years		
	Water Year (Average)	Dry Year (1961)	2008 (1959)	2009 (1960)	2010 (1961)
Local Supply	327,195	323,279	340,280	340,082	323,279
	98.8%	104.0%	103.9%	98.8%	
Imported Supply	61,739	52,750	56,750	40,500	52,750
	85.4%	91.9%	65.6%	85.4%	
2010-2015	**Normal**	**Single**	**Multiple Dry Water Years**		
	Water Year (Average)	**Dry Year (1961)**	**2013 (1959)**	**2014 (1960)**	**2015 (1961)**
Local Supply	327,259	309,144	312,108	317,101	309,144
	94.5%	95.4%	96.9%	94.5%	
Imported Supply	58,734	46,245	49,531	32,420	46,245
	78.7%	84.3%	55.2%	78.7%	
2015-2020	**Normal**	**Single**	**Multiple Dry Water Years**		
	Water Year (Average)	**Dry Year (1961)**	**2018 (1959)**	**2019 (1960)**	**2020 (1961)**
Local Supply	335,483	339,107	311,771	331,754	339,107
	101.1%	92.9%	98.9%	101.1%	
Imported Supply	56,685	16,250	48,750	16,250	16,250
	28.7%	86.0%	28.7%	28.7%	
2020-2025	**Normal**	**Single**	**Multiple Dry Water Years**		
	Water Year (Average)	**Dry Year (1961)**	**2023 (1959)**	**2024 (1960)**	**2025 (1961)**
Local Supply	344,176	343,029	329,437	335,045	343,029
	99.7%	95.7%	97.3%	99.7%	
Imported Supply	57,048	16,250	48,750	16,250	16,250
	28.5%	85.5%	28.5%	28.5%	
2025-2030	**Normal**	**Single**	**Multiple Dry Water Years**		
	Water Year (Average)	**Dry Year (1961)**	**2028 (1959)**	**2029 (1960)**	**2030 (1961)**
Local Supply	357,779	360,681	344,781	343,998	360,681
	100.8%	96.4%	96.1%	100.8%	
Imported Supply	50,700	8,283	48,750	16,250	8,283
	16.3%	96.2%	32.1%	16.3%	

Table 9
Basis of Water Year Data

Water Year Type			
Average Water Year	Average of Historical Hydrology from 1922 to 2004		
Single-Dry Water Year	1961		
Multiple-Dry Water Years	1959	1960	1961

	Section 2.2.2.1	Reference & Page Number
	Section 2.2.2.1	Reference & Page Number
	Section 2.2.2.1	Reference & Page Number

Water Sources Not Available on a Consistent Basis **(Water Code §10631 (c))**

- [x] Describe the reliability of the water supply due to seasonal or climatic shortages — Section 2.2.2.2 — Reference & Page Number
- [x] Describe the vulnerability of the water supply to seasonal or climatic shortages — Section 2.2.2.2 — Reference & Page Number
- [ ] No unreliable sources — Reference & Page Number

Table 10
Factors resulting in inconsistency of supply

Name of supply	Legal	Environ-mental	Water Quality	Climatic
tropolitan Water District of Southern California				x
Lower Santa Ana Basin				x
Surface Diversions				x

- [ ] Describe plans to supplement or replace inconsistent sources with alternative sources or DMMs — Reference & Page Number
- [x] No inconsistent sources — Reference & Page Number

Transfer or Exchange Opportunities **(Water Code §10631 (d))**

- [x] Describe short term and long term exchange or transfer opportunities — Section 2.2.1.5 — Reference & Page Number
- [ ] No transfer opportunities — Reference & Page Number

Table11
Transfer and Exchange Opportunities - AF Year

Transfer Agency	Transfer or Exchange	Short term	Proposed Quantities	Long term	Proposed Quantities
Northern California Water Agency (proposed)	Transfer			x	27,000
City of Long Beach (proposed)	Transfer			x	10,000
Santa Margarita Water District and Cucamaga Valley Water District Agreement	Transfer	x			
Total			0		37,000

Water Use Provisions **(Water Code §10631 (e)(1)(2))**

- [x] Quantify past water use by sector — Section 2.1.3.2 — Reference & Page Number
- [x] Quantify current water use by sector — Section 2.1.3.3 — Reference & Page Number
- [x] Project future water use by sector — Section 2.1.3.3 — Reference & Page Number

TABLE 12 - Past, Current and Projected Water Deliveries for Retail consumption

	1999-2000				2005				2010			
	metered		unmetered		metered		unmetered		metered		unmetered	
Water Use Sectors	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY
Municipal & Industrial		501,516				504,997				542,881		
Agriculture		20,128				16,781				12,094		
Total	0	521,644	0	0	0	521,778	0	0	0	554,975	0	0

TABLE12 (continued) - Past, Current and Projected Water Deliveries

	2015				2020				2025				2030 - opt			
	metered		unmetered		metered		unmetered		metered		unmetered		metered		unmetered	
Water Use Sectors	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY	# of accounts	Deliveries AFY
Municipal & Industrial		569,905				593,137				605,858				611,757		
Agriculture		8,252				6,229				4,840				4,801		
Total	0	578,157	0	0	0	599,366	0	0	0	610,698	0	0	0	616,558	0	0

- [ ] Identify and quantify sales to other agencies — Reference & Page Number
- [x] No sales to other agencies — Seciton 2.1.3.4 — Reference & Page Number

Table 13
Sales to Other Agencies - AF Year

Water Distributed	1999-2000	2005	2010	2015	2020	2025	2030 - opt
	0	0	0	0	0	0	0
name of agency							
name of agency							
Total	0	0	0	0	0	0	0

- [x] Identify and quantify additional water uses — Secton 2.1.3.3.3 — Reference & Page Number

Table 14
Additional Water Uses and Losses - AF Year

Water Use	1999-2000	2005	2010	2015	2020	2025	2030 - opt
Saline barriers	2,000	14,000	40,000	36,000	36,000	36,000	36,000
Groundwater recharge	343,873	311,080	348,934	349,993	356,169	365,223	372,479
Conjunctive use							
raw water							
recycled							
other (define)							
Unaccounted-for system losses							
Total	345,873	325,080	388,934	385,993	392,169	401,223	408,479

Any recycled water was included in table 12 should not be included in table 14.

Table 15
Total Water Use - AF Year

Water Use	1999-2000	2005	2010	2015	2020	2025	2030 - opt
Total of Tables 12, 13, 14	867,517	846,858	943,909	964,150	991,535	1,011,922	1,025,037

2005 Urban Water Management Plan "Review of DMMs for Completeness" Form **(Water Code §10631 (f)**

(Water Code §10631 (f) & (g), the 2005 Urban Water Management Plan "Review of DMMs for Completeness" Form is found on Sheet 2

BMP Activity Reports and Coverage Reports are include to meet the requirement of this section

Planned Water Supply Projects and Programs, including non-implemented DMMs **(Water Code §10631 (g))**

☐	No non-implemented / not scheduled DMMs		Reference & Page Number
☐	Cost-Benefit includes economic and non-economic factors (environmental, social, health, customer impact, and technological factors)		Reference & Page Number
☐	Cost-Benefit analysis includes total benefits and total costs		Reference & Page Number
☐	Identifies funding available for Projects with higher per-unit-cost than DMMs		Reference & Page Number
☐	Identifies Suppliers' legal authority to implement DMMs, efforts to implement the measures and efforts to identify cost share partners		Reference & Page Number

BMP Activity Reports and Coverage Reports are include to meet the requirement of this section

Table 16
Evaluation of unit cost of water resulting from non-implemented / non-scheduled DMMs and planned water supply project and programs

Non-implemented & Not Scheduled DMM / Planned Water Supply Projects (Name)	Per-AF Cost ($)

Planned Water Supply Projects and Programs **(Water Code §10631 (h))**

☐	No future water supply projects or programs		
x	Detailed description of expected future supply projects & programs	Section 2.2.3	Reference & Page Number
x	Timeline for each proposed project	Section 2.2.3	Reference & Page Number
x	Quantification of each projects normal yield (AFY)	Section 2.2.3	Reference & Page Number
x	Quantification of each projects single dry-year yield (AFY)	Section 2.2.3	Reference & Page Number
x	Quantification of each projects multiple dry-year yield (AFY)	Section 2.2.3	Reference & Page Number

Table 17
Future Water Supply Projects

			2010					2015				
Project Name	Projected Start Date	Projected Completion Date	Normal-year AF to agency	Single-dry year yield AF	Multiple-Dry-Year 1 AF	Multiple-Dry-Year 2 AF	Multiple-Dry-Year 3 AF	Normal-year AF to agency	Single-dry year yield AF	Multiple-Dry-Year 1 AF	Multiple-Dry-Year 2 AF	Multiple-Dry-Year 3 AF
ETWD Protion of El Toro AWT Joint project with MNWD and IRWD	0	2009-10	200	200	200	200	200	200	200	200	200	200
IRWD Irvine Desalter (Nonpotable)	0	2006-07	3898	3,898	3,898	3,898	3,898	3898	3,898	3,898	3,898	3,898
IRWD Irvine Desalter (potable)	0	2007-08	4645	4,645	4,645	4,645	4,645	5372	5,372	5,372	5,372	5,372
IRWD Wells 51,52,53,21&22	0	2009-10	5327	5,327	5,327	5,327	5,327	9494	9,494	9,494	9,494	9,494
IRWD Other Groundwater	0	2024-25	0	0	0	0	0	0	0	0	0	0
IRWD IrvineDesalter Wells 106,115	0	2014-15	0	0	0	0	0	2903	2,903	2,903	2,903	2,903
IRWD Michelson&LAWRP Reclamation 2005 Upgrades	2004-05	2006-07	7713	7,713	7,713	7,713	7,713	8500	8,500	8,500	8,500	8,500
IRWD Michelson Reclamation Expansion Phase II	0	2014-15	0	0	0	0	0	1693	1,693	1,693	1,693	1,693
LBCWD Laguna Creek Watershed Project	0	2007-08	200	200	200	200	200	200	200	200	200	200
Laguna Beach Well in the OCWD Basin	0	2009-10	2025	2,025	2,025	2,025	2,025	2025	2,025	2,025	2,025	2,025
Moulton Niguel Reclamation Expansion Phase IV (LRP 98)	0	2006-07	1276	1,276	1,276	1,276	1,276	1276	1,276	1,276	1,276	1,276
MNWD portion of SOCWA AWT	0	2007-08	204	204	204	204	204	364	364	364	364	364
MNWD portion of El Toro AWT Joint project	0	2009-10	50	50	50	50	50	1390	1,390	1,390	1,390	1,390
San Juan Capistrano Valley Non-Domestic Water System Expansion (LRP-98)	0	2007-08	1250	1,250	1,250	1,250	1,250	1750	1,750	1,750	1,750	1,750
SMWD Chiquita Reclamation Expansion I	0	2009-10	739	739	739	739	739	3016	3,016	3,016	3,016	3,016
SMWD Chiquita Reclamation Expansion II	0	2019-20	0	0	0	0	0	0	0	0	0	0
SMWD Canada Gobernadora	0	2006-07	725	725	725	725	725	725	725	725	725	725
SMWD Arroyo Trabuco	0	2007-08	473	473	473	473	473	700	700	700	700	700
SMWD Horno Basin Surface Water	0	2006-07	215	215	215	215	215	215	215	215	215	215
South Coast WD Capistrano Beach Desalter	0	2006-07	800	800	800	800	800	1300	1,300	1,300	1,300	1,300
Groundwater Replenishment System	2004	2006	72000	72,000	72,000	72,000	72,000	72000	72,000	72,000	72,000	72,000

	2020					2025					2030				
Project Name	Normal-year AF to agency	Single-dry year yield AF	Multiple-Dry-Year 1 AF	Multiple-Dry-Year 2 AF	Multiple-Dry-Year 3 AF	Normal-year AF to agency	Single-dry year yield AF	Multiple-Dry-Year 1 AF	Multiple-Dry-Year 2 AF	Multiple-Dry-Year 3 AF	Normal-year AF to agency	Single-dry year yield AF	Multiple-Dry-Year 1 AF	Multiple-Dry-Year 2 AF	Multiple-Dry-Year 3 AF
ETWD Protion of El Toro AWT Joint project with MNWD and IRWD	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
IRWD Irvine Desalter (Nonpotable)	3898	3,898	3,898	3,898	3,898	3898	3,898	3,898	3,898	3,898	3898	3,898	3,898	3,898	3,898
IRWD Irvine Desalter (potable)	5372	5,372	5,372	5,372	5,372	5372	5,372	5,372	5,372	5,372	5372	5,372	5,372	5,372	5,372
IRWD Wells 51,52,53,21&22	10375	10,375	10,375	10,375	10,375	12155	12,155	12,155	12,155	12,155	12155	12,155	12,155	12,155	12,155
IRWD Other Groundwater	0	0	0	0	0	1575	1,575	1,575	1,575	1,575	1575	1,575	1,575	1,575	1,575
IRWD IrvineDesalter Wells 106,115	2903	2,903	2,903	2,903	2,903	2903	2,903	2,903	2,903	2,903	2903	2,903	2,903	2,903	2,903
IRWD Michelson&LAWRP Reclamation 2005 Upgrades	8500	8,500	8,500	8,500	8,500	8500	8,500	8,500	8,500	8,500	8500	8,500	8,500	8,500	8,500
IRWD Michelson Reclamation Expansion Phase II	3524	3,524	3,524	3,524	3,524	4931	4,931	4,931	4,931	4,931	4931	4,931	4,931	4,931	4,931
LBCWD Laguna Creek Watershed Project	200	200	200	200	200	200	200	200	200	200	200	200	200	200	200
Laguna Beach Well in the OCWD Basin	2025	2,025	2,025	2,025	2,025	2025	2,025	2,025	2,025	2,025	2025	2,025	2,025	2,025	2,025
Moulton Niguel Reclamation Expansion Phase IV (LRP 98)	1276	1,276	1,276	1,276	1,276	1276	1,276	1,276	1,276	1,276	1276	1,276	1,276	1,276	1,276
MNWD portion of SOCWA AWT	364	364	364	364	364	364	364	364	364	364	364	364	364	364	364
MNWD portion of El Toro AWT Joint project	1390	1,390	1,390	1,390	1,390	1390	1,390	1,390	1,390	1,390	1390	1,390	1,390	1,390	1,390
San Juan Capistrano Valley Non-Domestic Water System Expansion (LRP-98)	2250	2,250	2,250	2,250	2,250	2600	2,600	2,600	2,600	2,600	2600	2,600	2,600	2,600	2,600
SMWD Chiquita Reclamation Expansion I	3360	3,360	3,360	3,360	3,360	3360	3,360	3,360	3,360	3,360	3360	3,360	3,360	3,360	3,360
SMWD Chiquita Reclamation Expansion II	1548	1,548	1,548	1,548	1,548	3405	3,405	3,405	3,405	3,405	3405	3,405	3,405	3,405	3,405
SMWD Canada Gobernadora	725	725	725	725	725	725	725	725	725	725	725	725	725	725	725
SMWD Arroyo Trabuco	700	700	700	700	700	700	700	700	700	700	700	700	700	700	700
SMWD Horno Basin Surface Water	215	215	215	215	215	215	215	215	215	215	215	215	215	215	215
South Coast WD Capistrano Beach Desalter	2000	2,000	2,000	2,000	2,000	2000	2,000	2,000	2,000	2,000	2000	2,000	2,000	2,000	2,000
Groundwater Replenishment System	72000	72,000	72,000	72,000	72,000	72000	72,000	72,000	72,000	72,000	72000	72,000	72,000	72,000	72,000

Opportunities for development of desalinated water **(Water Code §10631 (i))**

x	Describes opportunities for development of desalinated water, including, but not limited to, ocean water, brackish water, and groun	Section 2.2.1.6	Reference & Page Number

☐ No opportunities for development of desalinated water

Table 18
Opportunities for desalinated water

Sources of Water	Yield AF/Y	Start Date	Type of Use	Others
Ocean Water				
1. Poseidon Resources Porposed Seawater Dsalination Project	55,991.00	N/A (Not approved yet)	M&I	
2. Joint SDCWA and MWDOC Regional San Onofre Seawater Desalination	55,991 to 168,000	N/A (Under study)	M&I	
3. Desalination Plant in Dana Point	N/A	N/A (Under study)		

District is a CUWCC signatory **(Water Code § 10631 (j))**

Urban suppliers that are California Urban Water Conservation Council members may submit the annual reports identifying water demand management measures currently being implemented, or scheduled for implementation, to satisfy the requirements of subdivisions (f) and (g).
The supplier's CUWCC Best Management Practices Report should be attached to the UWMP.

x	Agency is a CUWCC member	Section 5.0	Reference & Page Number
x	2003-04 annual updates are attached to plan	Appendix 5-A & 5-B	Reference & Page Number
x	Both annual updates are considered completed by CUWCC website		Reference & Page Number

If Supplier receives or projects receiving water from a wholesale supplier **(Water Code §10631 (k))**

Yes

x	Agency receives, or projects receiving, wholesale water	Section 2.2.1.4	Reference & Page Number
x	Agency provided written demand projections to wholesaler, 20 years	Section 2.2.1.4	Reference & Page Number

Table 19 - A
Agency demand projections (on Retail Consumption) provided to wholesale suppliers - AFY

Wholesaler	2010	2015	2020	2025	2030 - opt
Metropolitan Water District of S	208,006	230,494	243,030	245,322	246,981
(name 2)					
(name 3)					

Table 19 - B
Agency demand projections (on GW Replenishment & Saline Barrier) provided to wholesale suppliers - AFY

Wholesaler	2010	2015	2020	2025	2030 - opt
Metropolitan Water Di	61,739	58,734	56,685	57,048	50,700
(name 2)					
(name 3)					

☐ Wholesaler provided written water availability projections, by source, to agency, 20 years _____ Reference & Page Number
(if agency served by more than one wholesaler, duplicate this table and provide the source availability for each wholesaler)

Table 20 - A
Wholesaler identified & quantified the existing and planned sources of water for Retail Consumption- AFY

Wholesaler sources	2010	2015	2020	2025	2030 - opt
Metropolitan Water District of S	208,006	230,494	243,030	245,322	246,981
(source 2)					
(source 3)					

Table 20 - B
Wholesaler identified & quantified the existing and planned sources of water for GW Replenishment and Saline Barrier- AFY

Wholesaler sources	2010	2015	2020	2025	2030 - opt
Metropolitan Water Di	61,739	58,734	56,685	57,048	50,700
(source 2)					
(source 3)					

☐ Reliability of wholesale supply provided in writing by wholesale agency Section 2.2.1.4 Reference & Page Number
(if agency served by more than one wholesaler, duplicate this table and provide the source availability for each wholesaler)

Table 21 - A
Wholesale Supply Reliability for Retail Consumption - % of Normal Supply AFY

		Single Dry	Multiple Dry Water Years		
Wholesaler sources		**1961**	**Year 1(1959)**	**Year 2 (1960)**	**Year 3 (1961)**
Metropolitan Water District of S	2010	122%	118%	114%	122%
	2015	125%	123%	120%	125%
	2020	125%	125%	121%	125%
	2025	126%	123%	123%	126%
	2030	125%	122%	122%	125%

Table 21 - B
Wholesale Supply Reliability for GW Replenishment and Saline Barrier - % of Normal Supply AFY

		Single Dry	Multiple Dry Water Years		
Wholesaler sources		**1961**	**Year 1(1959)**	**Year 2 (1960)**	**Year 3 (1961)**
Metropolitan Water Di	2010	79%	85%	59%	79%
	2015	72%	78%	48%	72%
	2020	22%	79%	22%	22%
	2025	21%	78%	21%	21%
	2030	8%	88%	24%	8%

Table 22
Factors resulting in inconsistency of wholesaler's supply

Name of supply	Legal	Environment	Water Quality	Climatic
Metropolitan Water District of Southern California				x

Water Shortage Contingency Plan Section **(Water Code § 10632)**
Stages of Action **(Water Code § 10632 (a))**

x	Provide stages of action	Section 7.2	Reference & Page Number
	Provide the water supply conditions for each stage		Reference & Page Number
x	Includes plan for 50 percent supply shortage	Section 7.2	Reference & Page Number

Table 23
Water Supply Shortage Stages and Conditions
RATIONING STAGES (based on Metropolitan's WSDM Plan)

Stage No.	Water Supply Conditions	% Shortage
1	Withdraw stored water from Diamond Valley Lake	
2	Stage 1 plus draw from out of region groundwater storage	
3	Stage 2 plus curtail/temporary suspend deliveries to local groundwater and surface storage replenishment in accordance with their discounted rates	
4	Stage 3 plus draw from local Conjunctive Use Groundwater Programs & SWP terminus reservoirs	
5	Stage 4 plus extraordinary conservation through coordinated outreach and curtail Interim Agricultural Water Program deliveries in accordance with discounted rates	
6	Stage 5 plus exercise water transfer option contracts and/or buy water on open market for consumptive use or for delivery to regional storage facilities	

7	Stage 6 plus allocation of imported water to member agencies based adopted principles of fairness and need	

Three-Year Minimum Water Supply **(Water Code §10632 (b))**

[x] Identifies driest 3-year period — Section 7.3 Reference & Page Number

[x] Minimum water supply available by source for the next three years — Section 7.3 Reference & Page Number

Table 24 - A
Three-Year Estimated Minimum Water Supply for Retail Consumption (Based on Multiple Dry Years) - AF Year

source**	Normal			Multiple Dry Year		
	2006	2007	2008	2006	2007	2008
Local Supplies	288,374	318,141	340,398	283,858	304,140	329,716
Imported Supply	237,887	215,041	200,269	278,845	250,655	242,768
Total	526,261	533,182	540,667	562,704	554,795	572,484

Preparation for catastrophic water supply interruption **(Water Code §10632 (c))**

[x] Provided catastrophic supply interruption plan — Section 7.4 Reference & Page Number

Table 25
Preparation Actions for a Catastrophe

Possible Catastrophe	Summary of Actions*
Regional power outage	Coordinate communication with So. Ca. Edison and Sempra Energy Co. for restoration of services. Provide contacts for vendors of rental generators and initiate mutual assistance between unaffected and affected agencies for emergency backup power. Consult with the California Department of Health for water quality concerns and public notices.
Earthquake	Coordinate the resources necessary for repair of the Orange County retail water agencies' infrastructure. Facilitate mutual aid from outside agencies through MWD, California Utilities Emergency Association, and the Orange County Operational Area. Utilize vendor lists to identify available water haulers, temporary water lines, piping, heavy equipment, etc.
Tsunami	If time allows notify coastal agencies to shut down operations in inundation zone, including but not limited to: wells and pumps. Request California Department of Health Services support in evaluating water contamination via salt water intrusion and backflow of raw sewer water. Support agency efforts to restore water flow in unique conditions of flooding (safety) and probably lack of electricity (refer to above actions). Continue support similar to an earthquake response.
Malicious Act	Since such an incident typically involves a long term response with law enforcement, WEROC could support the agency with staff, communications with the County, and temporary water facilities/pipelines. In addition, coordination of WEROC water quality advisors, California Department of Health Services and public information officers will be critical.
Flooding	Coordination with the Orange County Resource and Development Management Department for flood control support. Coordination of mutual assistance for repair of infrastructure.
Dam Failure	Coordinate communications of inundation zone evacuation through the local law enforcement. Identify water losses and what the loss means for the county during the current weather season and conditions. Evaluate the need and ability for immediate reconstruction and restoration of services.
SONGS - Nuclear Release	Work with Orange County retailers that have open water sources: consider shutting down those systems. Work with California Department of Health Services for affects and countermeasures. Also work with agencies within the fall out zone to determine future use of infrastructure in the affected area.
Wild Land Fire	Coordinate with the Orange County Fire Authority to ensure that they have enough water for fire flow. Refer to "Actions To a Regional Power Outage" for loss of power to pumps due to fire. Identify available emergency generators for backup power supply. If ongoing fire response may coordinate county wide water reduction campaign, and reallocate and move water towards incident area. If infrastructure is within the fire path, identify secondary routes of delivery and services depending on the location of the incident.

Prohibitions **(Water Code § 10632 (d))**

[ ] List the mandatory prohibitions against specific water use practices during water shortages — Section 7.5.1 Reference & Page Number

Table 26
Mandatory Prohibitions

Examples of Prohibitions	Stage When Prohibition Becomes Mandatory
This does not apply to a wholesale agency -MWDOC	

Consumption Reduction Methods **(Water Code § 10632 (e))**

[ ] List the consumption reduction methods the water supplier will use to reduce water use in the most restrictive stages with up to a 50% reduction. — Section 7.5.2 Reference & Page Number

Table 27
Consumption Reduction Methods

Consumption Reduction Methods	Stage When Method Takes Effect	Projected Reduction (%)
Not applicable to wholesale agency - MWDOC		

Penalties **(Water Code § 10632 (f))**

x List excessive use penalties or charges for excessive use — Section 7.5.3 Reference & Page Number

Table 28
Penalties and Charges

Penalties or Charges	Stage When Penalty Takes Effect
Penalty for excess use	
Charge for excess use	Adjust water rates to refelct penalites imposed by Metropolitan
Other (name penalties or charges)	
Other (name penalties or charges)	
Other (name penalties or charges)	
Other (name penalties or charges)	
Other (name penalties or charges)	
Other (name penalties or charges)	

Revenue and Expenditure Impacts **(Water Code § 10632 (g))**

x Describe how actions and conditions impact revenues — Section 7.6 Reference & Page Number

x Describe how actions and conditions impact expenditures — Section 7.6 Reference & Page Number

x Describe measures to overcome the revenue and expenditure impacts — Section 7.6 Reference & Page Number

Table 29
Proposed measures to overcome revenue impacts

Names of measures	Check if Discussed
Rate adjustment	
Development of reserves	x
name of measure	
name of measure	

Table 30
Proposed measures to overcome expenditure impacts

Names of measures	Check if Discussed
Development of Tier 2 Contingency Fund for purchase water with higher	**x**
name of measure	
name of measure	
name of measure	

Water Shortage Contingency Ordinance/Resolution **(Water Code § 10632 (h))**

x Attach a copy of the draft water shortage contingency resolution or ordinance. — Appendix 7-A, Section 7.7 Reference & Page Number

Reduction Measuring Mechanism **(Water Code § 10632 (i))**

☐ Provided mechanisms for determining actual reductions — Section 7.8 Reference & Page Number

Table 31
Water Use Monitoring Mechanisms

Mechanisms for determining actual reductions	Type data expected (pop-up?)
Not applicable to Wholesale Agency - MWDOC	
Name mechanism	
Name mechanism	

Recycling Plan Agency Coordination **Water Code § 10633**

x Describe the coordination of the recycling plan preparation information to the extent available — Section 6.1 Reference & Page Number

Table 32
Participating agencies

	participated
Water agencies	Municipal Water District of Orange County, City of Anaheim, Ciyt of San Clemente, City os San Juan Capistrano, Laguna Beach County Water District, Metropolitan Water District of Southern California
Water/Wastewater agencies	Irvine Ranch Water District, Aliso Water management Agency, El Toro Water District, Moulton Niguel Water District, Los Alisos Water District, South Coast Water District, Trabuco Canyon Water District, Santa Margarita Water District
Wastewater agencies	Orange County Sanitation District, County Sanitation Districts of Los Angeles, South Orange County Wastewater Authority
Groundwater agencies	Orange County Water District, San Juan Basin Authority
Planning Agencies	Santa Ana Watershed Project Authority, Orange County Public Facilities and Resources, US Bureau of Reclamation, California Department of Water Resources, Natural Resourves Conservation District, Orange County Helathy Care Agency, Regional Water eQuality Control Board - 9, County of Orange, Orange County Flood Control District

Wastewater System Description **(Water Code § 10633 (a))**

x Describe the wastewater collection and treatment systems in the supplier's service area — Section 6.2 Reference & Page Number

Describe the wastewater collection and treatment systems in the supplier's service area

[x] Quantify the volume of wastewater collected and treated — Section 6.2 — Reference & Page Number

Table 33
Wastewater Collection and Treatment - AF Year

Type of Wastewater	2000	2005	2010	2015	2020	2025	2030 - opt
Wastewater collected & treated in service area	334,732	339,190	411,119	439,708	465,719	468,556	468,815
Volume that meets recycled water standard	50,680	56,899	183,894	191,534	233,755	235,569	235,703

avg mgd: 0 0 — AFY: - -

Wastewater Disposal and Recycled Water Uses — (Water Code § 10633 (a - d))

[x] Describes methods of wastewater disposal — Section 6.2 — Reference & Page Number
[x] Describe the current type, place and use of recycled water — Section 6.3 — Reference & Page Number
[ ] None — Reference & Page Number
[x] Describe and quantify potential uses of recycled water — Section 6.5 — Reference & Page Number

Table 34
Disposal of wastewater (non-recycled) AF Year

Method of disposal	Treatment Level	2005	2010	2015	2020	2025	2030 - opt
Ocean Outfall	Primary and Secondary	249,678	197,055	217,209	200,414	200,414	200,414
Ocean Outfall	Secondary & Tertiary	28,270	24,419	25,385	25,342	24,909	25,034
Ocean Outfall	Teritiary	4,343	5,751	5,580	6,208	7,664	7,664
	Total	282,291	227,225	248,174	231,964	232,987	233,112

Table 35
Recycled Water Uses - Actual and Potential (AFY)

User type	Treatment Level	2005	2010	2015	2020	2025	2030 - opt
Groundwater Recharge		0	165,240	170,165	175,090	180,015	184,940
Indirect potable		0	25,159	25,159	25,159	25,159	25,159
Landscape		29,287	41,647	42,251	42,855	43,460	44,064
Sea Barrier		4,000	30,000	30,000	30,000	30,000	30,000
Environmental		0	90	93	95	98	100
Industrial		0	3,344	3,344	334	3,344	3,344
Tolerant Agiructlure		0	987	873	758	644	529
Miscellaneous		0	895	895	895	895	895
	Total	33,287	267,362	272,780	275,186	283,615	289,031

[x] Determination of technical and economic feasibility of serving the potential uses — Section 6.5 — Reference & Page Number

Projected Uses of Recycled Water — (Water Code § 10633 (e))

[x] Projected use of recycled water, 20 years — Sectioin 6.3 — Reference & Page Number

Table 36
Projected Future Use of Recycled Water in Service Area - AF Year

	2010	2015	2020	2025	2030 - opt
Projected use of Recycled Water for Landscape Irrigation	51,375	54,521	59,208	62,618	62,618
Projected use of Recycled Water for Groundwater Recharge & Sea Barrier	72,000	72,000	72,000	72,000	72,000

[x] Compare UWMP 2000 projections with UWMP 2005 actual (§ 10633 (e)) — Section 6.4 — Reference & Page Number
[ ] None — Reference & Page Number

Table 37
Recycled Water Uses - 2000 Projection compared with 2005 actual - AFY

User type	2000 Projection for 2005	2005 actual use
Landscape Irrigation	39,600	29,287
Total	39,600	29,287

Plan to Optimize Use of Recycled Water — (Water Code § 10633 (f))

[x] Describe actions that might be taken to encourage recycled water uses — Section 6.6 — Reference & Page Number
[x] Describe projected results of these actions in terms of acre-feet of recycled water used per year — Section 6.6.1 — Reference & Page Number

Table 38
Methods to Encourage Recycled Water Use

Actions	AF of use projected to result from this action				
	2010	2015	2020	2025	2030 - opt
Financial incentives from Metropolitan Water District of So	79,603	79,603	79,603	79,603	79,603
name of action					
name of action					
name of action					
name of action					
name of action					
name of action					
name of action					
Total	79,603	79,603	79,603	79,603	79,603

[x] Provide a recycled water use optimization plan which includes actions to facilitate the use of recycled water (dual distribution systems, promote recirculating uses) — Section 6.7 — Reference & Page Number

Water quality impacts on availability of supply — (Water Code §10634)

[ ] Discusses water quality impacts (by source) upon water management strategies and supply reliability — Reference & Page Number

[x] No water quality impacts projected — Section 3.1

Table 39
Current & projected water supply changes due to water quality - percentage

water source	2005	2010	2015	2020	2025	2030 - opt

Supply and Demand Comparison to 20 Years (Water Code § 10635 (a))

[x] Compare the projected normal water supply to projected normal water use over the next 20 years, in 5-year increments. — Section 2.3.1 Reference & Page Number

Table 40 - A
Projected Normal Water Supply for Retail Consumption- AF Year

(from table 4)	2010	2015	2020	2025	2030 - opt
Supply	554,970	578,160	599,370	610,700	616,560
% of year 2005	106%	111%	115%	117%	118%

Table 40 - B
Projected Normal Water Supply for GW Replenishment & Saline Barrier - AF Year

(from table 4)	2010	2015	2020	2025	2030 - opt
Supply	388,930	385,990	392,170	401,220	408,480
% of year 2005	120%	119%	121%	123%	126%

Table 41 - A
Projected Normal Water Demand for Retail Consumption- AF Year

(from table 15)	2010	2015	2020	2025	2030 - opt
Demand	554,980	578,160	599,370	610,700	616,560
% of year 2005	106%	111%	115%	117%	118%

Table 41 - B
Projected Normal Water Demand for GW Replenishment & Saline Barrier - AF Year

(from table 15)	2010	2015	2020	2025	2030 - opt
Demand	388,930	385,990	392,170	401,220	408,480
% of year 2005	120%	119%	121%	123%	126%

Table 42 - A
Projected Supply and Demand Comparison for Retail Demand Consumption - AF Year

	2010	2015	2020	2025	2030 - opt
Supply totals	554,970	578,160	599,370	610,700	616,560
Demand totals	554,980	578,160	599,370	610,700	616,560
Difference	(10)	0	0	0	0
Difference as % of Supply	0%	0%	0%	0%	0%
Difference as % of Demand	0%	0%	0%	0%	0%

Table 42 - B
Projected Supply and Demand Comparison for GW Replenishment & Saline Barrier - AF Year

	2010	2015	2020	2025	2030 - opt
Supply totals	388,930	385,990	392,170	401,220	408,480
Demand totals	388,930	385,990	392,170	401,220	408,480
Difference	0	0	0	0	0
Difference as % of Supply	0.0%	0.0%	0.0%	0.0%	0.0%
Difference as % of Demand	0.0%	0.0%	0.0%	0.0%	0.0%

Supply and Demand Comparison: Single-dry Year Scenario (Water Code § 10635 (a))

[x] Compare the projected single-dry year water supply to projected single-dry year water use over the next 20 years, in 5-year increments. — Section 2.3.2 Reference & Page Number

Table 43 - A
Projected single dry year Water Supply for Retail Consumption- AF Year

	2010	2015	2020	2025	2030 - opt
Local Supply	332,774	322,569	328,874	334,801	341,783
Imported Supply	254,476	288,677	304,510	310,194	309,572
Supply Totals	**587,250**	**611,246**	**633,383**	**644,995**	**651,354**
% of projected normal	105.8%	105.7%	105.7%	105.6%	105.6%

Table 43 - B
Projected single dry year Water Supply for GW Replenishment & Saline Barrier - AF Year

	2010	2015	2020	2025	2030 - opt
Local Supply	323,279	309,144	339,107	343,029	360,681
Imported Supply	52,750	46,245	16,250	16,250	8,283
Supply Totals	**376,029**	**355,389**	**355,357**	**359,279**	**368,964**
% of projected normal	96.7%	92.1%	90.6%	89.5%	90.3%

Table 44 - A
Projected single dry year Water Demand for Retail Consumption - AF Year

	2010	2015	2020	2025	2030 - opt
Demand	587,250	611,246	633,383	645,174	651,354
% of projected normal	105.8%	105.7%	105.7%	105.6%	105.6%

Table 44 - B
Projected single dry year Water Demand for GW Replenishment & Saline Barrier- AF Year

	2010	2015	2020	2025	2030 - opt
Demand	376,029	355,389	355,357	359,279	368,964
% of projected normal	96.7%	92.1%	90.6%	89.5%	90.3%

Table 45 - A
Projected single dry year Supply and Demand Comparison for Retail Consumption - AF Year

	2010	2015	2020	2025	2030 - opt
Supply totals	587,250	611,246	633,383	644,995	651,354
Demand totals	587,250	611,246	633,383	645,174	651,354
Difference	0	0	0	(179)	0
Difference as % of Supply	0.0%	0.0%	0.0%	0.0%	0.0%
Difference as % of Demand	0.0%	0.0%	0.0%	0.0%	0.0%

Table 45 - B
Projected single dry year Supply and Demand Comparison for GW Replenishment & Saline Barrier- AF Year

	2010	2015	2020	2025	2030 - opt
Supply totals	376,029	355,389	355,357	359,279	368,964
Demand totals	376,029	355,389	355,357	359,279	368,964
Difference	0	0	0	0	0
Difference as % of Supply	0.0%	0.0%	0.0%	0.0%	0.0%
Difference as % of Demand	0.0%	0.0%	0.0%	0.0%	0.0%

Supply and Demand Comparison: Multiple-dry Year Scenario (Water Code § 10635 (a))

[x] Project a multiple-dry year period (as identified in Table 9) occurring between 2006-2010 and compare projected supply and demand during those years — Section 2.3.3 Reference & Page Number

Table 46 - A
Projected supply for retail consumption during multiple dry year period ending in 2010 - AF Year

Supply			2008	2009	2010
Normal Year					
Local Supply			340,398	346,462	346,969
Imported Supply			200,269	202,092	208,006
Supply Totals			**540,667**	**548,553**	**554,975**
Multiple Dry Year					
Local Supply			333,125	332,843	332,774
Imported Supply			244,821	237,614	254,476
Supply Totals			**577,946**	**570,458**	**587,250**
% of projected normal			106.9%	104.0%	105.8%

Table 46 - B
Projected supply for GW replenishment & saline barrier during multiple dry year period ending in 2010 - AF Year

Supply			2008	2009	2010
Normal Year					
Local Supply			334,687	331,119	327,195
Imported Supply			65,746	66,201	61,739
Supply Totals			**400,433**	**397,320**	**388,934**
Multiple Dry Year					
Local Supply			340,280	340,082	323,279
Imported Supply			56,750	40,500	52,750
Supply Totals			**397,030**	**380,582**	**376,029**
% of projected normal			99.2%	95.8%	96.7%

Table 47 -A
Projected demand for retail consumption multiple dry year period ending in 2010 - AFY

Table 47 - B
Projected demand for GW replenishment & saline barrier multiple dry year period ending in 2010 -

Demand			2008	2009	2010
Normal			**540,667**	**548,553**	**554,975**
Multiple Dry Year			**577,946**	**570,458**	**587,250**
% of projected normal			106.9%	104.0%	105.8%

Demand			2008	2009	2010
Normal			**400,433**	**397,320**	**388,934**
Multiple Dry Year			**397,030**	**380,582**	**376,029**
% of projected normal			99.2%	95.8%	96.7%

Table 48
Projected Supply and Demand Comparison for retail consumption during multiple dry year period ending in 2010- AF Year

			2008	2009	2010
Supply totals			577,946	570,458	587,250
Demand totals			577,946	570,458	587,250
Difference			(0)	0	0
Difference as % of Supply			0.0%	0.0%	0.0%
Difference as % of Demand			0.0%	0.0%	0.0%

Table 48 - B
Projected Supply and Demand Comparison for GW replenishment & saline barrier during multiple dry year period ending in 2010- AF Year

			2008	2009	2010
Supply totals			397,030	380,582	376,029
Demand totals			397,030	380,582	376,029
Difference			0	0	0
Difference as % of Supply			0.0%	0.0%	0.0%
Difference as % of Demand			0.0%	0.0%	0.0%

[x] Project a multiple-dry year period (as identified in Table 9) occurring between 2011-2015 and compare projected supply and demand during those years — Section 2.3.3 — Reference & Page Number

Table 49 - A
Projected supply for retail consumption during multiple dry year period ending in 2015 - AF Year

Supply			2013	2014	2015
Normal Year					
Local Supply			342,843	346,137	347,662
Imported Supply			226,074	227,336	230,494
Supply Totals			**568,917**	**573,472**	**578,157**
Multiple Dry Year					
Local Supply			324,837	319,490	322,569
Imported Supply			282,844	276,226	288,677
Supply Totals			**607,682**	**595,716**	**611,246**
% of projected normal			106.8%	103.9%	105.7%

Table 49 - B
Projected supply for GW replenishment & saline barrier during multiple dry year period ending in 2015 - AF Year

Supply			2013	2014	2015
Normal Year					
Local Supply			318,506	324,278	327,259
Imported Supply			61,061	60,232	58,734
Supply Totals			**379,567**	**384,510**	**385,993**
Multiple Dry Year					
Local Supply			312,108	317,101	309,144
Imported Supply			49,531	32,420	46,245
Supply Totals			**361,639**	**349,520**	**355,389**
% of projected normal			95.3%	90.9%	92.1%

Table 50 - A
Projected demand for retail consumption multiple dry year period ending in 2015 - AFY

Demand			2013	2014	2015
Normal			**568,917**	**573,472**	**578,157**
Multiple Dry Year			**607,682**	**595,716**	**611,246**
% of projected normal			106.8%	103.9%	105.7%

Table 50 - B
Projected demand for GW replenishment & saline barrier multiple dry year period ending in 2015 - AFY

Demand			2013	2014	2015
Normal			**379,567**	**384,510**	**385,993**
Multiple Dry Year			**361,639**	**349,520**	**355,389**
% of projected normal			95.3%	90.9%	92.1%

Table 51 - A
Projected Supply and Demand Comparison for retail consumption during multiple dry year period ending in 2015- AF Year

			2013	2014	2015
Supply totals			607,682	595,716	611,246
Demand totals			607,682	595,716	611,246
Difference			0	0	0
Difference as % of Supply			0.0%	0.0%	0.0%
Difference as % of Demand			0.0%	0.0%	0.0%

Table 51 - B
Projected Supply and Demand Comparison for GW replenihsment & saline barrier during multiple dry year period ending in 2015- AF Year

			2013	2014	2015
Supply totals			361,639	349,520	355,389
Demand totals			361,639	349,520	355,389
Difference			0	0	0
Difference as % of Supply			0.0%	0.0%	0.0%
Difference as % of Demand			0.0%	0.0%	0.0%

[x] Project a multiple-dry year period (as identified in Table 9) occurring between 2016-2020 and compare projected supply and demand during those years — Seciton 2.3.3 — Reference & Page Number

Table 52 - A
Projected supply for retail consumption during multiple dry year period ending in 2020 - AF Year

Supply			2018	2019	2020
Normal Year					
Local Supply			351,779	353,963	356,336
Imported Supply			239,739	241,948	243,030
Supply Totals			**591,519**	**595,911**	**599,366**
Multiple Dry Year					
Local Supply			329,027	324,399	328,874
Imported Supply			302,616	294,339	304,510
Supply Totals			**631,643**	**618,738**	**633,383**
% of projected normal			106.8%	103.8%	105.7%

Table 52 - B
Projected supply for GW replenishment & saline barrier during multiple dry year period ending in 2020 - AF Year

Supply			2018	2019	2020
Normal Year					
Local Supply			331,476	332,743	335,483
Imported Supply			56,279	56,847	56,685
Supply Totals			**387,754**	**389,590**	**392,169**
Multiple Dry Year					
Local Supply			311,771	331,754	339,107
Imported Supply			48,750	16,250	16,250
Supply Totals			**360,521**	**348,004**	**355,357**
% of projected normal			93.0%	89.3%	90.6%

Table 53 - A
Projected demand for retail consumption multiple dry year period ending in 2020 - AFY

Demand			2018	2019	2020
Normal			**591,519**	**595,911**	**599,366**
Multiple Dry Year			**631,643**	**618,738**	**633,383**
% of projected normal			106.8%	103.8%	105.7%

Table 53 - B
Projected demand for GW replenishment & saline barrier multiple dry year period ending in 2020 - AFY

Demand			2018	2019	2020
Normal			**387,754**	**389,590**	**392,169**
Multiple Dry Year			**360,521**	**348,004**	**355,357**
% of projected normal			93.0%	89.3%	90.6%

Table 54 - A
Projected Supply and Demand Comparison for retail consumption during multiple dry year period ending in 2020- AF Year

			2018	2019	2020
Supply totals			631,643	618,738	633,383
Demand totals			631,643	618,738	633,383
Difference			0	0	0
Difference as % of Supply			0.0%	0.0%	0.0%
Difference as % of Demand			0.0%	0.0%	0.0%

Table 54 - B
Projected Supply and Demand Comparison for GW replenishment & saline barrier during multiple dry year period ending in 2020- AF Year

			2018	2019	2020
Supply totals			360,521	348,004	355,357
Demand totals			360,521	348,004	355,357
Difference			0	0	0
Difference as % of Supply			0.0%	0.0%	0.0%
Difference as % of Demand			0.0%	0.0%	0.0%

[x] Project a multiple-dry year period (as identified in Table 9) occurring between 2021-2025 and compare projected supply and demand during those years — Section 2.3.3 — Reference & Page Number

Table 55 - A
Projected supply for retail consumption during multiple dry year period ending in 2025 - AF Year

Supply			2023	2024	2025
Normal Year					
Local Supply			361,771	363,849	365,377
Imported Supply			244,654	244,873	245,322
Supply Totals			**606,424**	**608,722**	**610,698**
Multiple Dry Year					
Local Supply			344,291	330,406	334,801
Imported Supply			302,951	301,248	310,194
Supply Totals			**647,242**	**631,654**	**644,995**
% of projected normal			106.7%	103.8%	105.6%

Table 55 - B
Projected supply for GW replenishment & saline barrier during multiple dry year period ending in 2025 - AF Year

Supply			2023	2024	2025
Normal Year					
Local Supply			340,576	342,669	344,176
Imported Supply			56,666	56,703	57,048
Supply Totals			**397,242**	**399,372**	**401,223**
Multiple Dry Year					
Local Supply			329,437	335,045	343,029
Imported Supply			48,750	16,250	16,250
Supply Totals			**378,187**	**351,295**	**359,279**
% of projected normal			95.2%	88.0%	89.5%

Table 56 - A
Projected demand for retail consumption multiple dry year period ending in 2025 - AFY

Demand			2023	2024	2025
Normal			**606,424**	**608,722**	**610,698**
Multiple Dry Year			**647,423**	**631,831**	**645,174**
% of projected normal			106.8%	103.8%	105.6%

Table 56 - B
Projected demand for GW replenishment & saline barrier multiple dry year period ending in 2025 - AFY

Demand			2023	2024	2025
Normal			**397,242**	**399,372**	**401,223**
Multiple Dry Year			**378,187**	**351,295**	**359,279**
% of projected normal			95.2%	88.0%	89.5%

Table 57 - A
Projected Supply and Demand Comparison for retail consumption during multiple dry year period ending in 2025- AF Year

			2023	2024	2025
Supply totals			647,242	631,654	644,995
Demand totals			647,423	631,831	645,174
Difference			(181)	(176)	(179)
Difference as % of Supply			0.0%	0.0%	0.0%
Difference as % of Demand			0.0%	0.0%	0.0%

Table 57 - B
Projected Supply and Demand Comparison for GW replenishment & slaine barrier during multiple dry year period ending in 2025- AF Year

			2023	2024	2025
Supply totals			378,187	351,295	359,279
Demand totals			378,187	351,295	359,279
Difference			0	0	0
Difference as % of Supply			0.0%	0.0%	0.0%
Difference as % of Demand			0.0%	0.0%	0.0%

[x] Project a multiple-dry year period (as identified in Table 9) occurring between 2026-2030 and compare projected supply and demand during those years — Seciton 2.3.3 — Reference & Page Number

Table 58 - A
Projected supply for retail consumption during multiple dry year period ending in 2030 - AF Year

Supply			2028	2029	2030
Normal Year					
Local Supply			367,819	368,871	369,577
Imported Supply			246,886	247,103	246,981
Supply Totals			**614,705**	**615,974**	**616,558**
Multiple Dry Year					
Local Supply			355,198	337,298	341,783
Imported Supply			301,024	302,027	309,572
Supply Totals			**656,222**	**639,325**	**651,354**
% of projected normal			106.8%	103.8%	105.6%

Table 58 - B
Projected supply for GW replenishment & saline barrier during multiple dry year period ending in 2030 - AF Year

Supply			2028	2029	2030
Normal Year					
Local Supply			352,576	356,009	357,779
Imported Supply			52,796	51,233	50,700
Supply Totals			**405,372**	**407,243**	**408,479**
Multiple Dry Year					
Local Supply			344,781	343,998	360,681
Imported Supply			48,750	16,250	8,283
Supply Totals			**393,531**	**360,248**	**368,964**
% of projected normal			97.1%	88.5%	90.3%

Table 59 - A
Projected demand for retail consumption multiple dry year period ending in 2030 - AFY

Demand			2028	2029	2030
Normal			**614,705**	**615,974**	**616,558**
Multiple Dry Year			**656,222**	**639,325**	**651,354**
% of projected normal			106.8%	103.8%	105.6%

Table 59 - B
Projected demand for GW replenishment & saline barrier multiple dry year period ending in 2030 - AFY

Demand			2028	2029	2030
Normal			**405,372**	**407,243**	**408,479**
Multiple Dry Year			**393,531**	**360,248**	**368,964**
% of projected normal			97.1%	88.5%	90.3%

Table 60 - A
Projected Supply and Demand Comparison for retail consumption during multiple dry year period ending in 2030- AF Year

			2028	2029	2030
Supply totals			656,222	639,325	651,354
Demand totals			656,222	639,325	651,354
Difference			0	0	0
Difference as % of Supply			0.0%	0.0%	0.0%
Difference as % of Demand			0.0%	0.0%	0.0%

Table 60 - B
Projected Supply and Demand Comparison for GW replenishment & saline barrier during multiple dry year period ending in 2030- AF Year

			2028	2029	2030
Supply totals			393,531	360,248	368,964
Demand totals			393,531	360,248	368,964
Difference			0	0	0
Difference as % of Supply			0.0%	0.0%	0.0%
Difference as % of Demand			0.0%	0.0%	0.0%

Provision of Water Service Reliability section to cities/counties within service area — **(Water Code § 10635(b))**

[ ] Provided Water Service Reliability section of UWMP to cities and counties within which it provides water supplies within 60 days of UWMP submission to DWR — to be completed — Reference & Page Number

Does the Plan Include Public Participation and Plan Adoption — **(Water Code § 10642)**

[ ]	Attach a copy of adoption resolution	Appendix 8-B	Reference & Page Number
[x]	Encourage involvement of social, cultural & economic community groups	Seciton 1.1.3	Reference & Page Number
[x]	Plan available for public inspection	Appendix 8-A(ii)	Reference & Page Number
[ ]	Provide proof of public hearing	Appendix 8-B(i)	Reference & Page Number
[ ]	Provided meeting notice to local governments		Reference & Page Number

Review of implementation of 2000 UWMP — **(Water Code § 10643)**

[x]	Reviewed implementation plan and schedule of 2000 UWMP	Seciton 8.2	Reference & Page Number
[x]	Implemented in accordance with the schedule set forth in plan	Section 8.2	Reference & Page Number
[ ]	2000 UWMP not required		Reference & Page Number

Provision of 2005 UWMP to local governments — **(Water Code § 10644 (a))**

[ ] Provide 2005 UWMP to DWR, and cities and counties within 30 days of adoption — To be completed — Reference & Page Number

Does the plan or correspondence accompanying it show where it is available for public review — **(Water Code § 10645)**

[ ] Does UWMP or correspondence accompanying it show where it is available for public review — Section 8.1 — Reference & Page Number